Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. - 15. (cancelled)

16. (previously presented) A method for delivering a plurality of stent segments to a treatment site, the method comprising:

positioning a distal portion of a stent delivery catheter device at the treatment site;

axially moving a first sheath and a second sheath of the catheter device to expose at least part of a radially expandable member on the catheter device and at least one of a plurality of separately deployable stent segments mounted on the expandable member; and

radially expanding only the exposed part of the expandable member to deploy the one stent segment at the treatment site while a second portion of the expandable member and at least one remaining stent segment of the plurality remains unexpanded on the delivery device unconnected with the one stent segment and the at least one remaining stent segment is constrained by either the first sheath or the second sheath after the one stent segment has been fully deployed.

17. (original) A method as in claim 16, further comprising moving the first sheath again to further expose the expandable member to deploy at least one additional stent segment.

18. (original) A method as in claim 17, wherein the at least one additional stent segment has a length different than the at least one stent segment.

19. (original) A method as in claim 16, further comprising restraining a first portion of the expandable member from which at least one stent segment has been deployed

while expanding a second portion of the expandable member to deploy at least one additional stent segment.

20. (original) A method as in claim 19, wherein restraining the first portion of the expandable member comprises moving a second sheath of the catheter device over the first portion of the expandable member from which at least one stent segment has been deployed.

21. (original) A method as in claim 19, wherein restraining the first portion of the expandable member comprises retracting a portion of the expandable member from which at least one stent segment has been deployed within the catheter device.

22. (previously presented) A method for delivering a plurality of stent segments to treatment sites in a body lumen of a patient, the method comprising:

positioning a distal portion of a stent delivery catheter device in the body lumen, the delivery catheter having a first sheath, a second sheath adjacent the first sheath, an expandable member and a plurality of stent segments mounted thereon, the stent segments and expandable member being at least partially covered by the first and second sheath;

moving at least one of the first sheath or the second sheath of the catheter device to expose a first portion of the expandable member so as to allow deployment of a first selected number of stent segments at a first treatment site while a second portion of the expandable member and at least one remaining stent segment remains constrained by either the first or the second sheath after the first selected number of stent segments have been fully deployed, and the wherein the at least one remaining stent segment is unconnected with the first selected number of stent segments after deployment thereof;

repositioning the delivery catheter to a second treatment site in the body lumen spaced apart from the first treatment site without removing the delivery catheter from the patient; and

moving at least one of the first sheath or the second sheath to deploy a second selected number of stent segments at the second treatment site, wherein the first selected number is different than and unconnected to the second selected number.

23. (original) A method as in claim 22, further comprising:

expanding a first portion of an expandable member of the stent delivery device to deploy the first selected number of stent segments; and

expanding a second portion of the expandable member to deploy the second selected number of stent segments.

24. (original) A method as in claim 23, further comprising moving a second sheath to constrain the first portion of the expandable member before expanding the second portion of the expandable member.

25. (withdrawn) A method as in claim 22, wherein the stent segments are self-expanding so that moving the first sheath exposes the self-expanding stents to allow them to expand and deploy.

26. (withdrawn) A method as in claim 25, further including moving a second sheath to selectively deploy the second selected number of stent segments.

27. (withdrawn) A method as in claim 22, wherein the first selected number of stents have a first expanded diameter, and the second selected number of stents have a second expanded diameter different than the first expanded diameter.

28. (withdrawn) A method as in claim 22, wherein the first selected number of stents have a first geometry, and the second selected number of stents have a second geometry different than the first geometry.